

ERTD Temperature Sensor



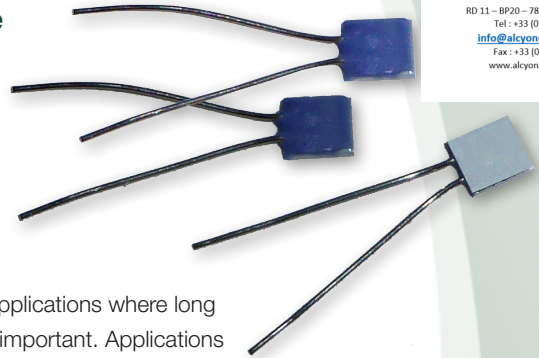
EUROSENSOR

Medium temperature platinum RTD sensor

- Temperature range -70°C to +500°C
- PT100, PT500 and PT1000 in addition to a full range of nominal resistance values at 0°C types available
- Tolerance Classes A, B, 2B, 1/3B and 1/10B available
- Small package size - typically 2.4 x 1.9 x 1 mm
- Higher and lower temperature ranges available

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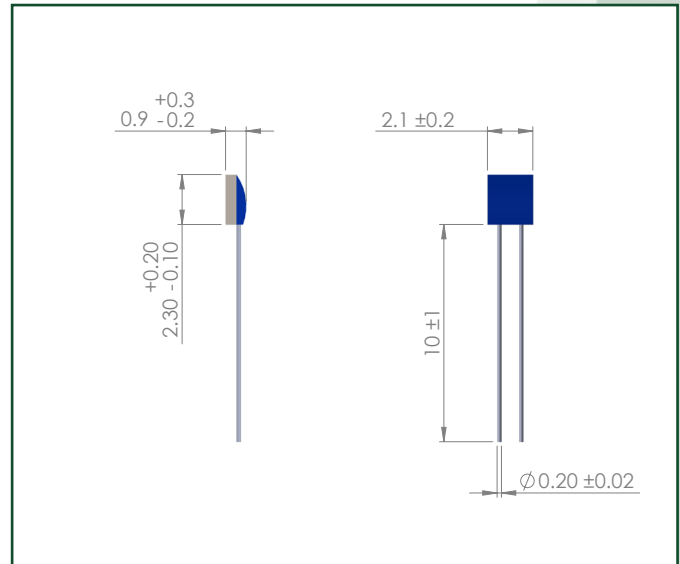


Variohm ERTD series Thin Film Platinum Elements are durable and designed for applications where long term stability, interchangeability and accuracy over a large temperature range are important. Applications include automotive, white goods, HVACR, energy management, medical and industrial. Nickel Thin Film Elements are also available as part of the RTD range.

Technical information

Specification	DIN EN 60751 (according to IEC 751)
Temperature range	-70°C to +500°C (continuous operation) (temporary use to 550°C possible) Tolerance Class B: -70°C to +500°C Tolerance Class A: -50°C to +300°C Tolerance Class 1/3 B: 0°C to +150°C Tolerance Class 1/10 B: 0°C to 100°C
Temperature coefficient	TC = 3850 ppm/K ; 3750 ppm/K available on request
Long-term stability	Max. R0-drift 0.04% after 1000 h at 500 °C
Vibration resistance	At least 40g acceleration at 10 to 2000 Hz, depends on installation
Shock resistance	At least 100g acceleration with 8ms half sine wave, depends on installation
Insulation resistance	> 100 MΩ at 20°C; > 2 MΩ at 500°C
Self heating	0.3 K/mW at 0°C
Environmental conditions	Unhoused for dry environments only

Typical dimensions in mm



Ordering Information

(Please use the characters in the chart below to construct your product code)

Sample Code: **ERTD - PT - 100 - 2B - 3850**

Series	Platinum or Nickel	Resistance at 0°C	Tolerance Class	Thermal Coefficient (ppm/K)
ERTD	PT = Platinum Ni = Nickel	100 = 100 Ω 500 = 500 Ω 1000 = 1 kΩ 2000 = 2 kΩ 10000 = 10 kΩ	2B = Class 2B B = Class B A = Class A 1/3B = Class 1/3B 1/10B = Class 1/10B	3850 3750



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